



# FIREFIGHTER SAFETY SWITCH

## Instructions for Installation and Operation

This manual is designed for Thinkwe Firefighter Safety Switch Installers, including professional technicians and end users. This document includes precautions, installing procedures, and system connection operations, setting up firefighter safety switches. Please read the manual before installation.

### **Attention:**

1. Please comply with local regulations and international standards.
2. Do not exceed the maximum voltage and current standards identified in the datasheet
3. The wiring schematics of the Firefighter Safety Switch can be found at the end of this manual.
4. Firefighter Safety Switch need be installed near the panel. When fire occurs, Firefighter Safety Switch can result in a power cut around the plant, by disconnecting the AC power.
5. Should not be installed in direct sunlight, and also can't be installed in continuous contact with water.




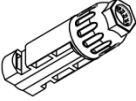


### **Function:**

When the Firefighter Safety Switch works, AC power supply is needed.

When AC power turn on, the control board drive motor, motor drive switch into the ON state. When the product remains in the normal state, the AC power keep ON all the time and the switch is kept in the ON state all the time.

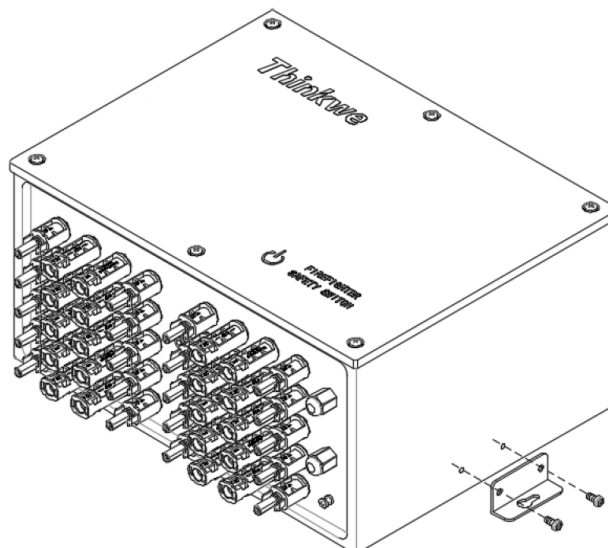
When AC power turn off, the control board detects the power off, and with the power in the capacitor on the control board, drive the motor, the motor drive switch into OFF state. The switch will also automatically switch to OFF when the temperature is higher than 70degrees Celsius.

## Accessories:

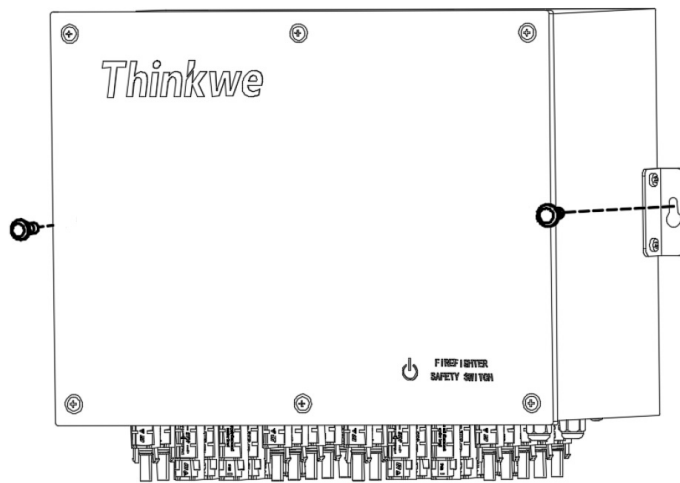
Name	Screws M5*10	Right Exterior Brackets	Left Exterior Brackets	Male MC4						Female MC4						Wall Screws M5*40
				5S	6S	7S	8S	9S	10S	5S	6S	7S	8S	9S	10S	
Qty	4	1	1	10	12	14	16	18	20	10	12	14	16	18	20	2
Picture																

## Location:

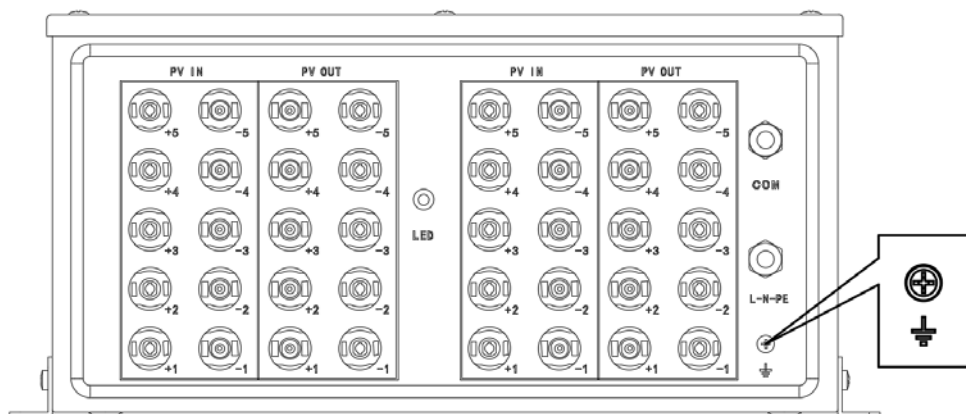
Step 1: Assemble the two brackets on the Enclosure.



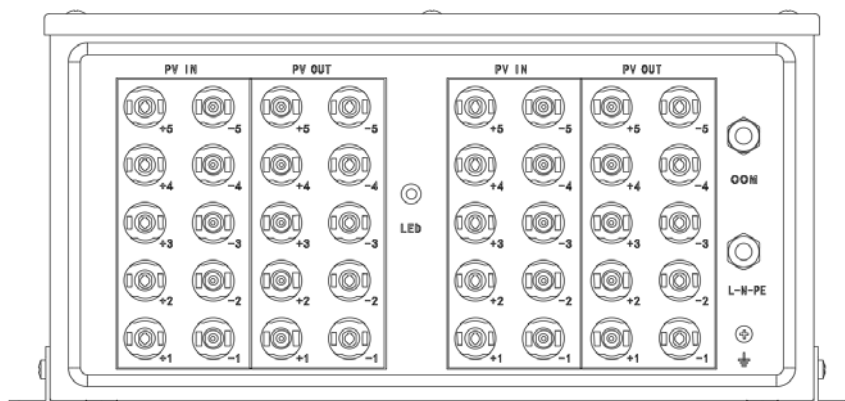
Step 2: Fix the Firefighter Safety Switch on the wall or the solar bracket.



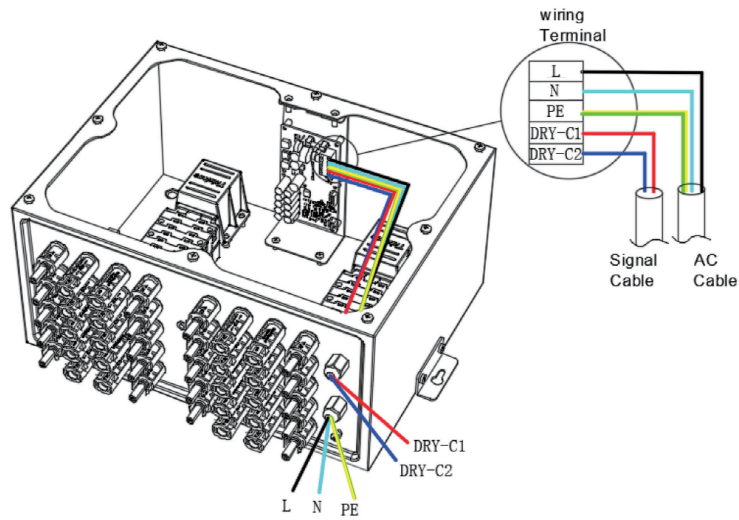
Step 3: Connect the ground cable to the enclosure.



Step 4: Connect the DC cable,



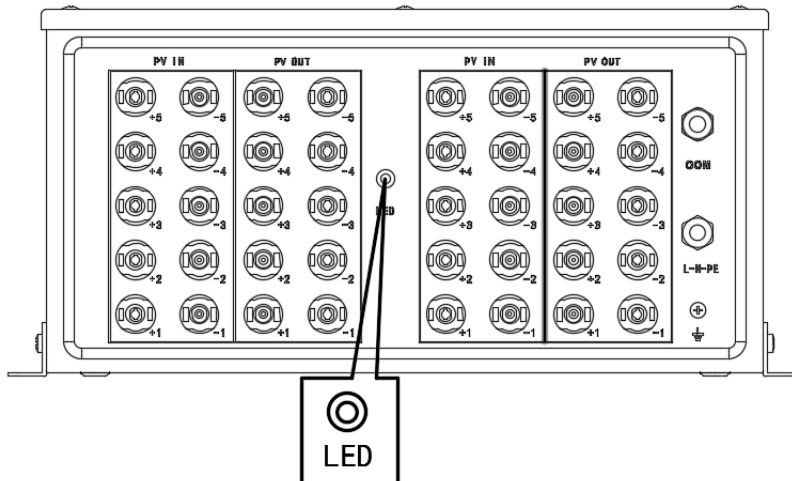
Step 5: Connect the AC cable.



Note: From the state of signal cable, we can know the on and off states of the switch remotely. When the switch is ON, DRY-C1 is connected to DRY-C2; when the switch is OFF, DRY-C1 is disconnected from DRY-C2.

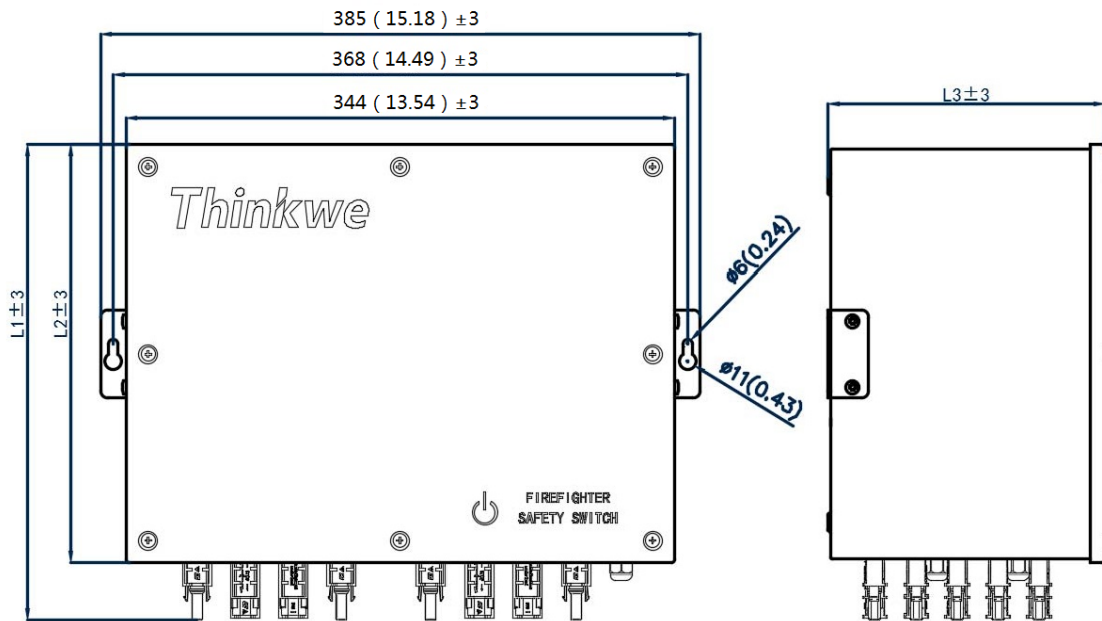
This function is optional, if need remote display, M12 cable gland and simple circuits needed.

Step 6: Start the Firefighter Safety Switch



Turn ON the AC power supply. The Firefighter Safety Switch will start to work and the DC switch will be ON, the status LED will be red.

## Size chart:



SIZE mm(in)	MODEL	TW-RSD150-40-5 TW-RSD150-40-6	TW-RSD150-40-7 TW-RSD150-40-8	TW-RSD150-40-9 TW-RSD150-40-10
	L1		244(9.61)	275(10.83)
L2		214(8.43)	245(9.65)	245(9.65)
L3		129 (5.08)	157(6.18)	183(7.20)

## Technical Data

MODEL	TW-RSD 150-40-5	TW-RSD 150-40-6	TW-RSD 150-40-7	TW-RSD 150-40-8	TW-RSD 150-40-9	TW-RSD 150-40-10
Number of strings	5	6	7	8	9	10
<b>Main loop parameters</b>						
Max DC voltage	1500 Vdc					
Max DC current	40 A					
Parameters	1500V26A, 1250V32A, 1000V40A,800V40A,600V40A					
DC connector	MC4					
<b>Control loop parameters</b>						
Power supply type	AC single phase					
Nominal voltage	230Vac					
Operating voltage	100-270 Vac					
Nominal frequency	50 Hz/60Hz					
Operating frequency	47-63 Hz					
Nominal current	30mA					
Max current	300mA					
AC connector	Plug-in					
<b>Product parameters</b>						
Protection degree	IP 65					
Protection level	Class II					
Certification	CE					
Switch according to	EN 60947-3					
Number of operations	>10000					
N. of operations under load	>1500					
Operating temperature	-20°c- 70° c					
Temperature sensor trigger	70° c					
Warranty	5 years					

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